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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/821,553	04/09/2004	John Morley	0701.079Н	4834
7590 09/27/2004			EXAMINER	
Philip E. Hansen, Esq.			COOK, REBECCA	
Heslin & Rothenberg, P.C. 5 Columbia Circle			ART UNIT	PAPER NUMBER
Albany, NY	Albany, NY 12203			
			DATE MAILED: 09/27/2004	4

Please find below and/or attached an Office communication concerning this application or proceeding.

	,	Application No.	Applicant(s)		
		10/821,553	MORLEY, JOHN		
	Office Action Summary	Examiner	Art Unit		
		Rebecca Cook	1614		
	The MAILING DATE of this communication	i			
Period fo					
THE - Exte after - If the - If NO - Failt Any	MAILING DATE OF THIS COMMUNICAT misions of time may be available under the provisions of 37 G SIX (6) MONTHS from the mailing date of this communicating period for reply specified above is less than thirty (30) days to period for reply is specified above, the maximum statutory are to reply within the set or extended period for reply will, by reply received by the Office later than three months after the ed patent term adjustment. See 37 CFR 1.704(b).	ION. CFR 1.136(a). In no event, however, may a con. s, a reply within the statutory minimum of the period will apply and will expire SIX (6) MC a statute, cause the application to become A	a reply be timely filed irty (30) days will be considered timely. DNTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).		
Status					
1) 又	Responsive to communication(s) filed on	4//9/04.			
2a)□		This action is non-final.			
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposit	ion of Claims				
5)□ 6)⊠ 7)□	Claim(s) 11-15 is/are pending in the application of the above claim(s) is/are with Claim(s) is/are allowed. Claim(s) 11-15 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and claim(s)	thdrawn from consideration.			
Applicat	ion Papers				
9)[The specification is objected to by the Exa	aminer.			
10)	The drawing(s) filed on is/are: a)] accepted or b)☐ objected to	by the Examiner.		
	Applicant may not request that any objection to	***	, ,		
11)[Replacement drawing sheet(s) including the of the oath or declaration is objected to by the oath or declaration is objected to by the oath or declaration is objected to be the oath of the oath or declaration is objected to be the oath of th	•			
Priority (under 35 U.S.C. § 119				
12)□ a)	Acknowledgment is made of a claim for for All b) Some * c) None of: 1. Certified copies of the priority docu 2. Certified copies of the priority docu 3. Copies of the certified copies of the application from the International Beee the attached detailed Office action for	ments have been received. ments have been received in a e priority documents have been sureau (PCT Rule 17.2(a)).	Application No n received in this National Stage		
Attachmen	ıt(s)				
1) 🔀 Notic	ce of References Cited (PTO-892)		Summary (PTO-413)		
2) 🔲 Notic 3) 🔲 Infon	ce of Draftsperson's Patent Drawing Review (PTO-94 mation Disclosure Statement(s) (PTO-1449 or PTO/5 or No(s)/Mail Date	(8) Paper No	o(s)/Mail Date Informal Patent Application (PTO-152)		

Application/Control Number: 10/821,553

Art Unit: 1614

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 11-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Borgstrom et al (AX) in view of Ariens (originally cited by examiner) and further in view of Koshino et al (AR6).

Borgstrom et al (page 49, column 1, lines 1-3) disclose that it is well-known to use terbutaline to treat obstructive airway disease. Borgstrom et al (page 40, column 1, lines 8-11) further disclose that the (-) enantiomer is the active form of the compound and that the (+) enantiomer is devoid of agonist activity. The claims differ over the reference in requiring the use of 98% of the R-enantiomer in order to avoid, ameliorate or restrict the deleterious side effects caused by the inactive enantiomer. Dependent claim 14 further requires the use of ketotifen. Claim 15 recites an inhalable terbutaline pulmonary composition comprising greater than 98% R-terbutaline.

However, Ariens (abstract, lines 4-5, page 200, column 3, lines 24-29, page 202, columns 1-3) discloses that the inactive enantiomer of drugs may be responsible for undesirable side effects. Furthermore, Koshino et al (page 1224, line 6, through page 1225, line 9, page 1226, lines 19-22) disclose that ketotifen may be used in combination with other .beta.-agonist drugs.

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It would be obvious to one of ordinary skill in the art that using the predominantly bronchodilator enantiomer form of terbutaline would avoid, ameliorate or restrict the occurrence of deleterious side effects caused by the inactive bronchodilator enantiomer. That is because Ariens discloses that the inactive enantiomer of drugs is responsible for undesirable side effects and Borgstrom et al disclose that one enantiomer of terbutaline is the active form of the compounds. One would be motivated to do so by the desire to treat obstructive airway disease with the enantiomer known for said treatment and to avoid the undesirable side effects that the inactive enantiomer is associated with.

Furthermore, it is well known to administer a bronchodilator drug via the pulmonary route. Additionally, it would be obvious to combine terbutaline and ketotifen, since both compounds are well known to be useful to treat obstructive airway disease. One would be motivated to use the instant method and composition by the desire to have a useful method and composition to treat airway disease.

Cited References

The references have not been provided, since they were cited and provided in parent application 10/095,846.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Cook whose telephone number is (571) 272-0571. The examiner can normally be reached on Monday through Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher Low, can be reached on (571) 272-0951.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to Renee Jones (571) 272-0547 in Customer Service.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

The official fax number is 703-872-9806

Rebecca Cook

Primary Examiner Art Unit 1614

Elicalors.

September 23, 2004